

# PHOTOGRAPHIC APPARATUS

MANUFACTURED BY

THE BLAIR  
TOUROGRAPH  
• and •  
DRY PLATE CO.



No. 477 TREMONT ST.

BOSTON MASS.

PRICE LIST &  
ILLUSTRATED  
CATALOGUE

TRIP 107  
P 63

## PREFACE.

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IN the establishment of our present business, the object in view was to manufacture goods especially designed for the use of amateurs, but as we grew in years and knowledge, we readily perceived that that which the successful professional requires for a class of work is equally desirable and needed for the amateur. The one may be content to use instruments more bulky, clumsy, and devoid of improvements, but the aim of each is the same. Work approaching as near perfection as possible should be the aim of both.

As a matter of course, the average amateur will not require the amount of apparatus or different sizes and styles in his stock, compared with the professional, and for that reason the outfitting department in this catalogue is intended for the use of the former. Otherwise we make no distinction between the two. What we recommend is intended for either, for the purposes mentioned.

Although we claim to carry the largest stock of light-weight cameras in the country, it should be borne in mind that an unexpected demand on any one line often exhausts the stock before a new lot can be made ready for the market; therefore we would strongly urge customers to give their orders as far in advance of their actual needs as practical, and we would especially ask attention to this matter when goods are to be made to order.

L09-5885

Entered according to the Act of Congress in the year 1884 by the Blair Tourograph and Dry Plate Co., in the office of the Librarian of Congress at Washington.

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**I**N setting about the task of compiling the third edition of our Annual Catalogue, we are inspired with the feeling that the lessons and trials of another year have passed, leaving us richer in experience and stronger by active use and successful efforts to grow in usefulness. To harmonize with the growth and prosperity of our business, this, our exponent, appears to you increased in size and clothed in a new dress.

At the date of last year's issue we prophesied that the increase in our facilities was at an end for the year 1883, but the demand for our goods has been such that we were compelled to almost double our manufacturing capacity.

Endeavoring to avoid being over-flushed with success, we have spared no expense in improving our goods and designing new styles, and are gratified to know that they have now won their deserved popularity. The greatest care being exercised in the selection of materials used, and only skilled workmen being employed, the result could not be otherwise.

That we shall have the same story to tell you in our fourth edition (1885), we think there is every prospect. Youthful vigor combined with wise management is our boast, and realizing that even the strongest can be overthrown, we shall ever aim to convince you by our dealings that we are

Your faithful servants,

THE BLAIR TOUROGRAPH & DRY PLATE CO.,

T. H. BLAIR, *Manager and Treasurer.*

BOSTON, MASS., 1884.

*THE SELECTION OF THE TOOLS.*

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IT is our belief that we are acting the part of friends by advising intending purchasers to procure the best when their means will permit. We therefore place first in the list the cameras which we would recommend as the best.

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**BLAIR'S NEW REVERSIBLE BACK COMBINATION CAMERAS.**

When we announce that we believe these Cameras to be the most compact, the most rigid (when set up for use) and the handsomest ever



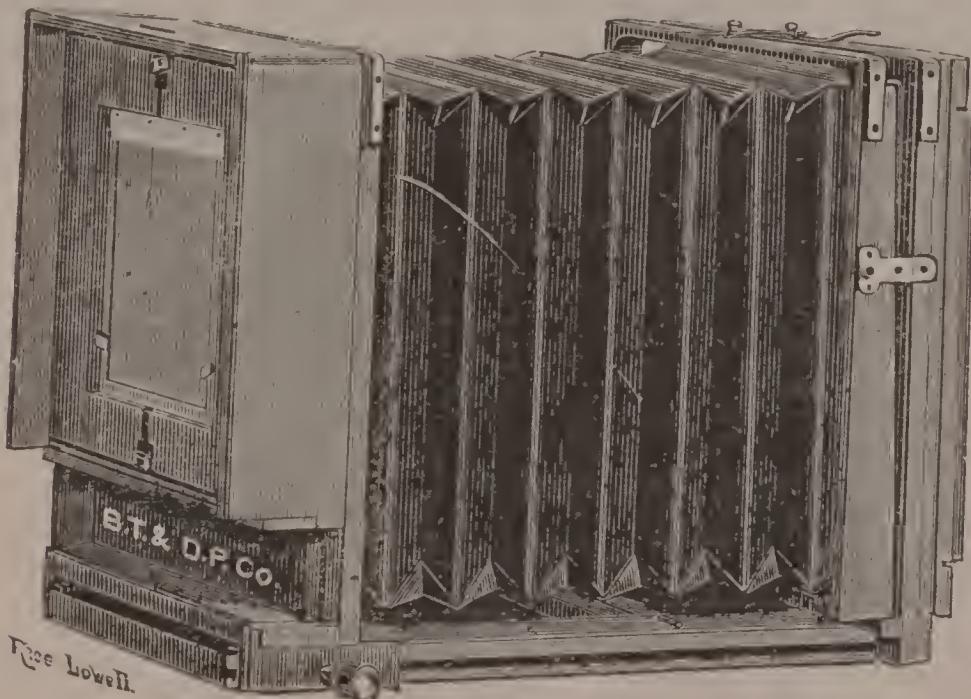
*Fig. 1.*

made in America, we are only echoing the words of the most competent judges. It has been our pleasure to be asked to exchange other cameras of all makes for these (the very latest and most highly

advertised included). The reasons are apparent to every one who examines them, and to use the words of the happy possessor of one, "It leaves nothing to be desired."

The focusing is achieved by the front of camera and lens moving forward by a fine rack and pinion movement.

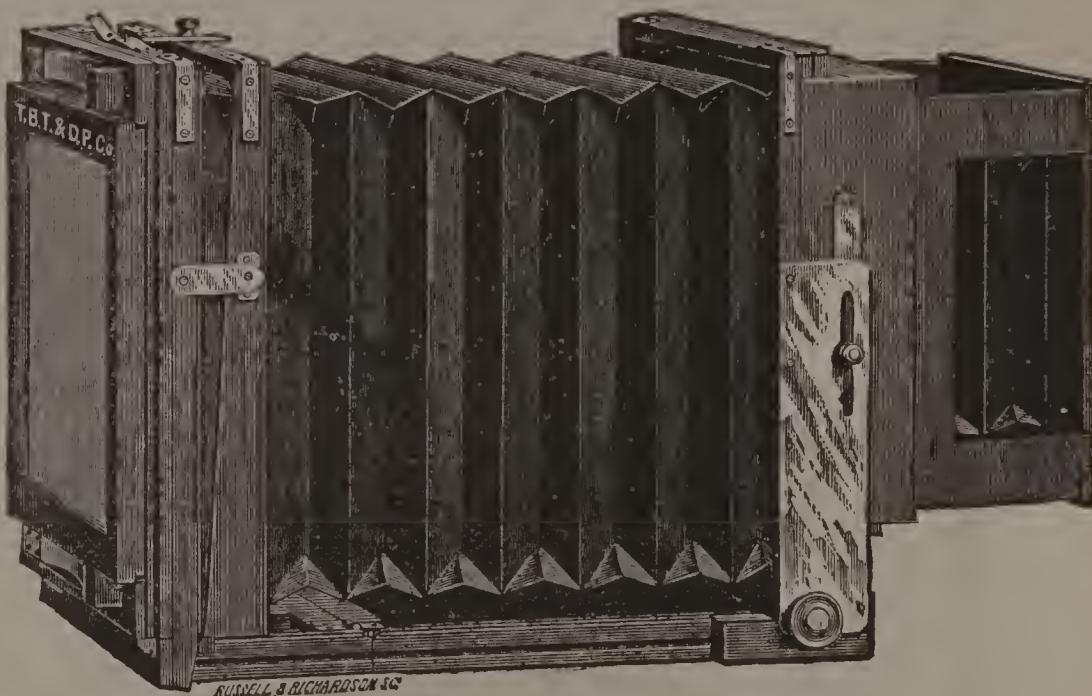
1. By the ground glass remaining stationary, greater ease in focusing is experienced, as the bothersome bed is removed out of the way entirely, and more control given to the use of the focusing cloth in excluding the light; and further, the absence of the bed behind enables the operator to get closer to a wall or in a corner, when photographing interiors, or in confined positions.



**Fig. 2.**

2. The back of camera being permanently secured to that portion of the bed which is attached directly to the tripod, greater rigidity is thereby given to the back, where steadiness is most desirable; also, the position in which the operator is thereby enabled to place the camera on the tripod more uniformly divides the weight on each side of the bearing.

3. Owing to the advantages above explained, the slide from the plate-holder can be drawn to the right or left when in a horizontal position; or, when raised vertically, can be drawn upward or downward. The desirability of this will be apparent to every photographer of experience.



*Fig. 3.*

The reversing of the back (to enable the operator to make upright views) is accomplished by simply pressing a spring, and changing the holder from vertical to horizontal; and as great pains are taken to have very accurate adjustments on all sides, no appreciable gain could be made were it constructed so as to revolve, while great increase in bulk would be a necessity.

Another most unique part in its construction is the means of attaching the plate-holder and ground glass. The latter is attached by all four corners, and kept in position, wherever it may come to a bearing, by springs, and when the plate-holder is to be attached, the sideways movement of a couple of inches causes it to recede sufficiently for the holder to be slid in freely, without a spring to retard its motion and jar

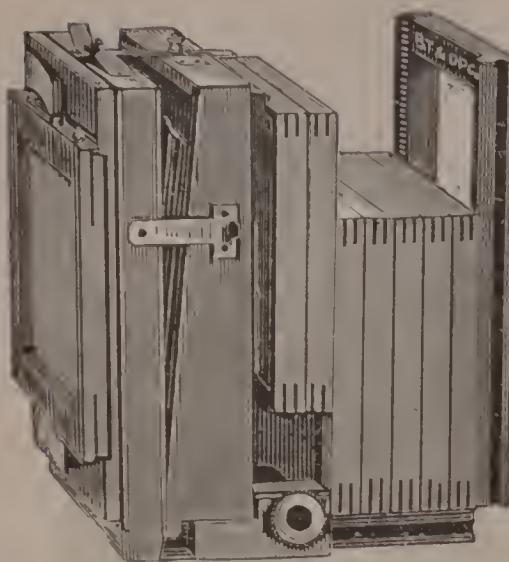


Fig. 4.

the camera; and when in position, and the ground glass frame, acted upon by the spring, is released, the latter lies firmly behind it,—all of which is accomplished without the touching of a catch (as, indeed, there is none) or removing or swinging the ground glass frame.

The front is made in two different styles, one illustrated in Figures Nos. 1, 2, and 3; the other styles in Figures 4 and 5. Figure 6 illustrates the method of placing the holder in the camera.

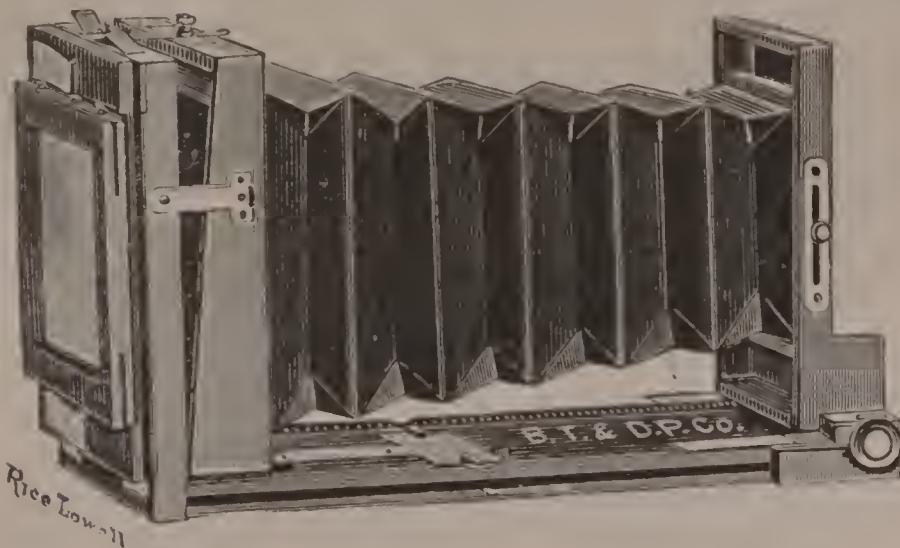


Fig. 5.

Figures 1, 2, and 3 are made only in 8x10 and 11x14 sizes. Figure 4 encloses within the bed when folded, six Feather Weight Double Plate-Holders, thus carrying twelve plates in the latter.

Fig. 5, the same, showing the full stretch of bellows. Fig. 6, the method of placing holder in camera.

The stationary portion of bed has two sockets for attaching the tripod, which enables the operator to balance his camera whether using a short or long focus lens.

In using the former, the short movable bed must be used, if any is required, as the longer one would interfere with the view of lens. In addition to the improvements named, these cameras possess all of the most modern adjustments, and are of the highest order of workmanship.

For weights and measurements, see page 32.

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### THE EXTENSION.

By removing the Reversible Back and applying our Patent Extension (reversible), we have a camera enabling the operator to use a size larger plate. (See Extension List.)

The adjusters are made for either the Blair Patent Double Holder or the Feather Weights. (See Plate Holder List.)

### A WORD ABOUT EXTENSIONS.

BLAIR PATENT EXTENSION is a contrivance for placing the plate a sufficient distance from the back of Camera proper to allow the rays to spread to the size of plate to be used on the extension; it will therefore be understood that an extremely long or an extremely short focus lens cannot be used successfully.

In completing this valuable adjunct to photographic apparatus, it was not the idea of the inventor to substitute (for example) a 5 x 8 camera proper with an 8 x 10 extension, for an 8 x 10 camera, when the operator intended using 8 x 10 plates in the majority of cases, because it would be more desirable to have an 8 x 10 camera proper; but the idea was to furnish an attachment for the use of the operator who used 5 x 8 plates as a rule, and occasionally desired to use an 8 x 10, etc. The only disadvantages in a camera formed with the extension attached is, that a *very short focus* lens cannot be used on account of the distance between the ground glass and camera front, and the fact when using a *very long focus* lens the frame of camera proper prevents the rays from the lens spreading to the edge of the plate. To correct the former, we make, when desired, a recess front. The latter can only be remedied by increasing the depth of the extension.

## PRICE LIST OF NEW REVERSIBLE BLAIR COMBINATION CAMERA.

CAMERA PROPER. Price.				EXTENSION.	
Size of Plate.	Capacity for length of focus.	Single Swing.	Double Swing.	Size of Plate.	Price.
4½ x 5½	13½ in.	\$28.00	\$30.00	5 x 8	\$ 8.00
5 x 7	15 "	31.00	33.00	8 x 10	10.00
6½ x 8½	16½ "	35.00	37.00	10 x 12	13.00
8 x 10	18½ "	40.00	43.00	11 x 14	15.00

THE NEW REVERSIBLE BLAIR COMBINATION CAMERA, WITH EXTENSION FRONT. Shown in Figs. 1, 2, and 3.

CAMERA PROPER.		EXTENSION.	
Size of Plate.	Price.	Size of Plate.	Price
8 x 10	\$45.00	11 x 14	\$15.00
11 x 14	60.00	14 x 17	22.00

The above prices include one double holder and carrying case with each camera and extension.

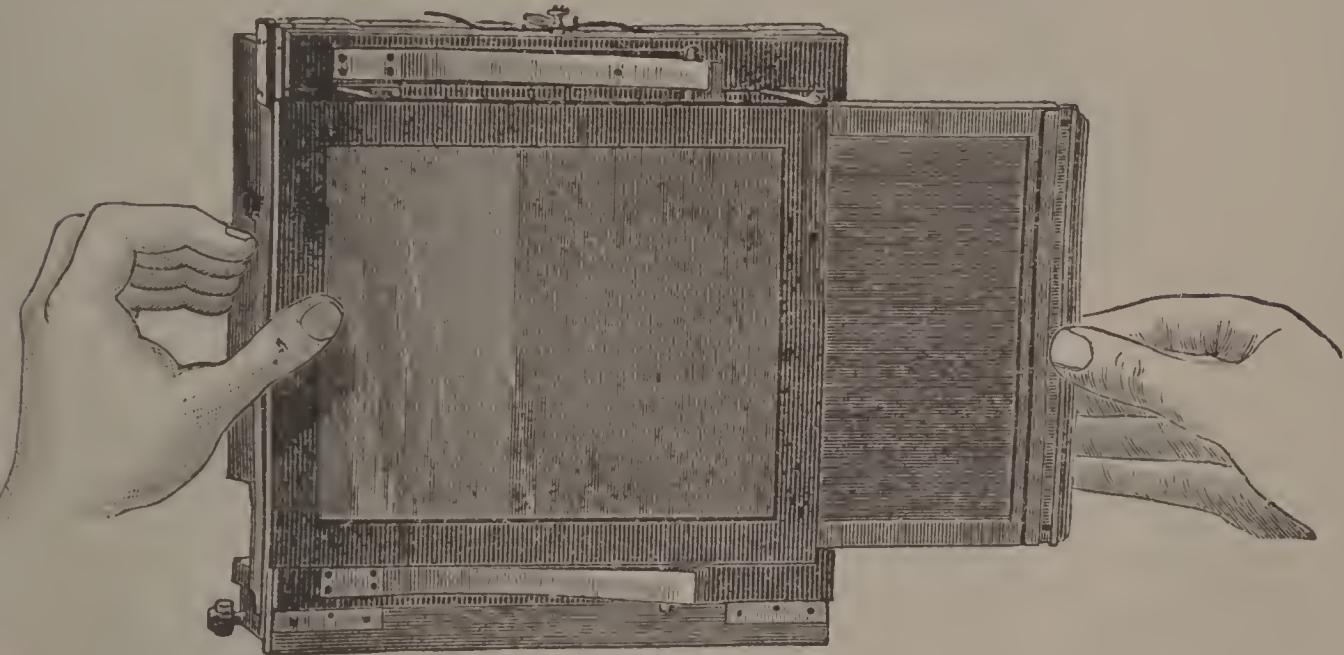


Fig. 6.

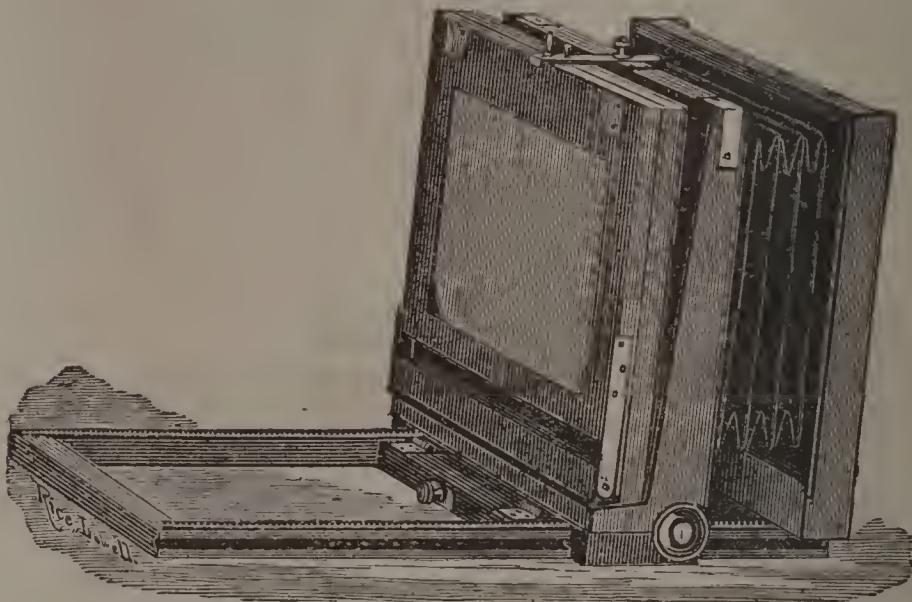
Extensions or adjusters can be made for any size plate smaller than the sizes quoted on preceding page; for example, an 8 x 10 extension can be made to go on a 6½ x 8½ camera proper, or the same size camera can be used with a 5 x 8 adjuster.

It will be seen that no 5 x 8 cameras proper are quoted; the reasons are that but a half inch could be saved in size, therefore we make 5 x 8

adjusters to go on a  $6\frac{1}{2} \times 8\frac{1}{2}$  camera. Please observe in ordering. Estimates furnished on larger and special sizes. For adjusters see page 25.

### THE BLAIR COMBINATION CAMERA.

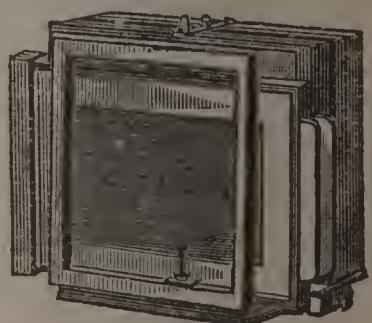
These cameras are supplied with extra long rubber bellows, and are made of the best quality of thoroughly seasoned mahogany and cherry, highly polished, and trimmed with nickel-plated mountings.



*Fig. 7.*

They are all provided with an extra bed for supporting the camera while exposing the plate in a vertical position; single swing-back, rack and pinion for focusing, improved set-screw and double sliding front (excepting  $4 \times 5$ , so-called, which has but single). The  $5 \times 8$  and  $8 \times 10$  have an extra lens-board, with division for stereoscopic work, or two separate views on one plate. The  $4 \times 5$  and  $5 \times 8$  (A) have inside springs or keeping as many folds of the bellows in position as are not required for use, thus allowing a full-sized plate to be cut with a short focus lens.

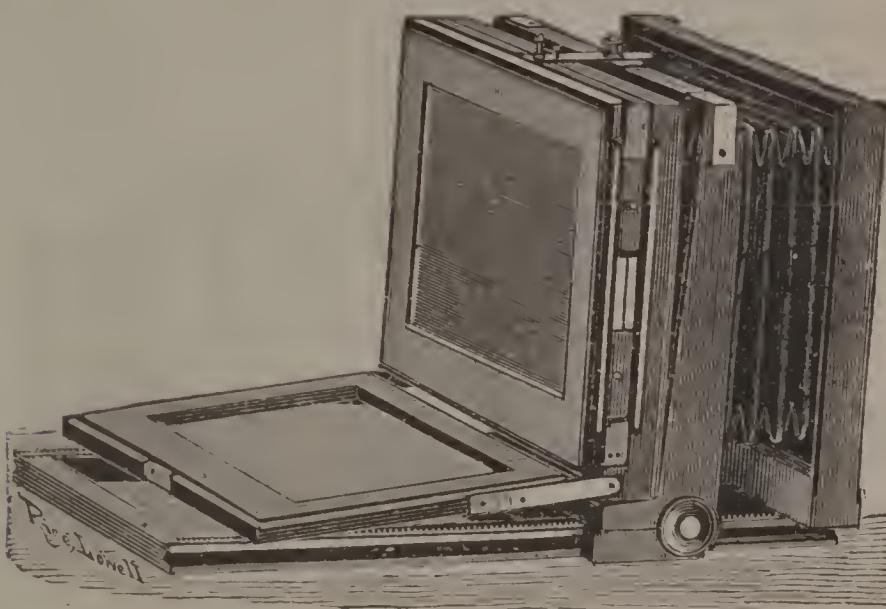
The  $5 \times 8$  (A) is the camera well known as our "Triumph." It is smaller in outside dimen-



*Fig. 8.*

sions than our 5 x 8 B (regular), and was not originally designed to be used as a combination; but we have now fitted it for a 6½ x 8½ Patent Extension, and have therefore lettered both styles as above.

For weights and measurements, see page 32.



*Fig. 9.*

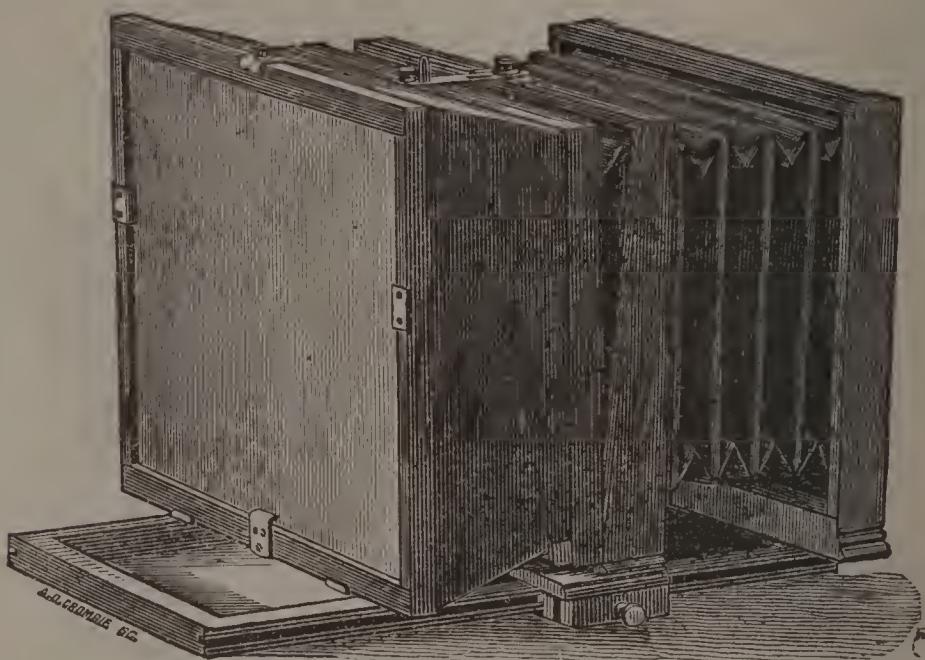
## PRICE LIST OF THE ORIGINAL BLAIR COMBINATION CAMERA.

CAMERA PROPER.			Price.	EXTENSION.	
Size of Plate.	Capacity for length of focus.	Single Swing.	Double Swing.	Size of Plate.	Price.
4 x 5	11 in.	\$20.00		5 x 7 . . . . .	\$5.00
5 x 8 (A)	13 "	25.00	\$28.00	6½ x 8½ . . . . .	8.00
5 x 8 (B)	14½ "	27.00	30.00	8 x 10 . . . . .	8.00
4 x 5 without Rack and Pinion, otherwise the same,					\$17.00.

Only the 5 x 8 (B) will admit using the Feather Weight Holders.

*When camera and extension are included in one order, a discount of one dollar from these prices is made.*

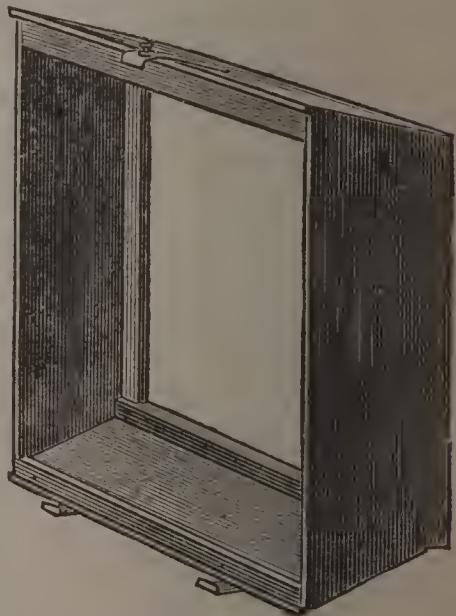
The above prices include with camera proper, one Double Dry Plate Holder (either style), and Imitation Morocco Carrying Case, with strap



*Fig. 10.*

and handle. With the Patent Extension is included one Double Dry Plate Holder and Imitation Morocco Carrying Case, with strap and handle. The folding bed is so constructed as to carry within it two Double Dry Plate Holders when folded to go into the case. Parties in ordering should state plainly the number of extra Holders required.

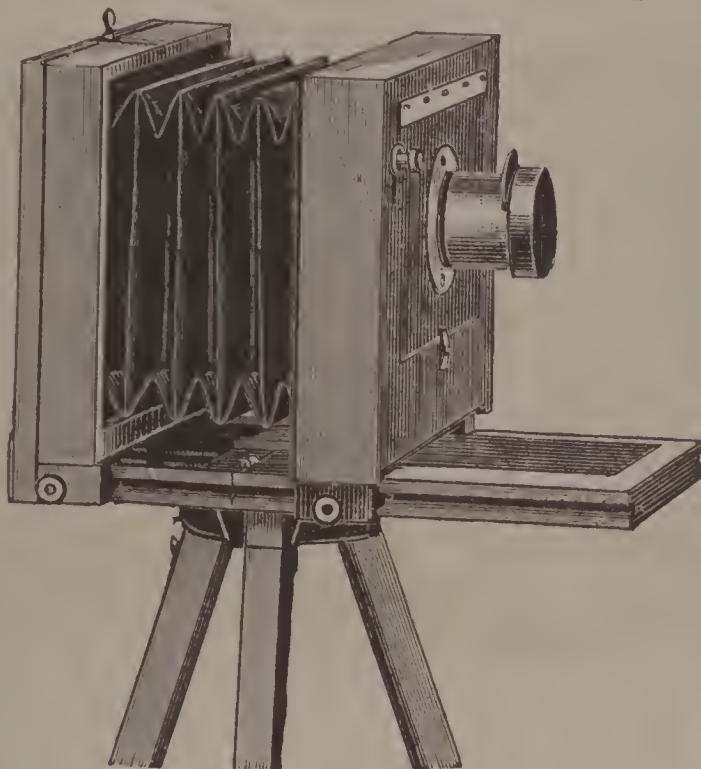
Our *Patent Plate Holder Extension* completes the combination. By its use plates much larger than the camera proper can be exposed, viz.: with our 5 x 8 camera and extension, 8 x 10 plates are used with all the advantages which the camera possesses.



*Fig. 11*

### THE UTILITY CAMERA.

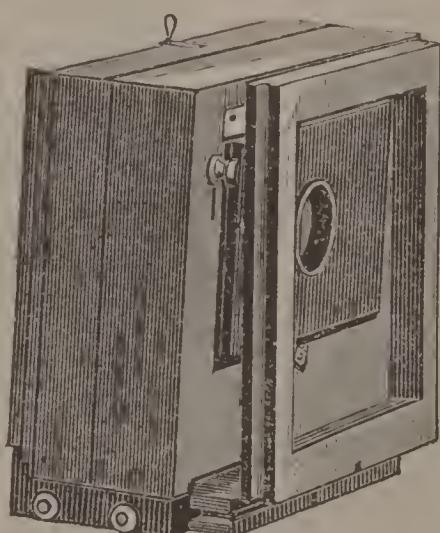
This camera is especially adapted to the requirements of the amateur, being exceedingly portable, compact, and light. It is provided



*Fig. 12.*

with fine focusing and set-screws, sliding front, and folding bed. When required for use it is placed on the tripod, and by clamping the bed to the top, the former is made extremely rigid.

The front portion of the camera is then drawn out to *about* the focal length of lens, and is there clamped, and by using the focusing screw which is attached to the back, the most accurate focus can be attained with ease. An improved set-screw is provided with each movable part, and the sliding front has an unusually long rise and fall, making the absence of a swing-back seldom missed. It is made of best quality cherry, polished, and trimmed with nickel mountings,



*Fig. 13.*

enclosed in heavy duck case provided with strap, which is included in price below—the 4 x 5 with one Double Dry Plate Holder, weighing only  $2\frac{1}{4}$  lbs., and the 5 x 8 with same, 3 lbs.

## PRICES.

4 x 5 with one Double Dry Plate Holder . . . . .	\$ 8.50
5 x 8 . . . . .	10.00
With "Double Sliding Front," extra "front, and division for stereoscopic work ; reversible for upright views . . . . .	12.50

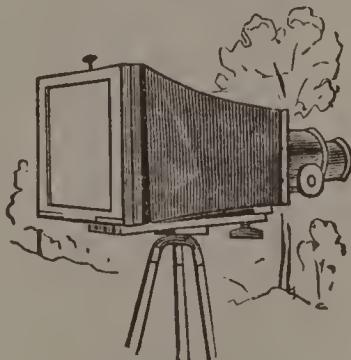
## THE "BOSTON DETECTIVE" CAMERA.

This new instrument is a model of neatness and utility. It is composed of a first quality camera (with pure rubber bellows and rack, and pinion focusing attachment), which, when not desired for instantaneous work, can be taken out of the case and used for ordinary work. It has a capacity within the case for carrying three Feather Weight Double Plate Holders when focussed "ready for a shot," and when folded will carry six Feather Weight Holders or one dozen plates.

No focusing cloth or tripod is needed, and, the case being made of first quality mahogany, highly polished, it presents a very attractive appearance. Price, complete (including Camera-Case, Instantaneous Exposer, Darlot Rapid Hemispherical Lens, three Feather Weight Double Holders for 4 x 5 plates), \$40.

## THE BOSTON TOURING CAMERA.

Especially arranged for the use of Cyclists. Exceedingly light and compact. It is made of mahogany, finely polished, and fitted with nickel



*Fig. 14.*



*Fig. 15.*

plated trimmings. Single achromatic lens, intended only for out-door

work, making pictures 4 x 5 inches. Complete, in shoulder-bag for carrying; price, \$12.00; with tripod, \$15.00.

### THE STANDARD CAMERAS.

They are put on the market as an inexpensive though reliable camera. Complete with Camera and one Double Dry Plate Holder.

They are accurate and reliable, made of well-seasoned Whitewood, finished in black or stained *Imitation Mahogany*.

### PRICES.

4 x 5 . . . . .	\$3.50
5 x 8 . . . . .	4.50

### ENGLISH FOLDING TRIPOD.

This has proven the most popular form of tripod yet introduced; it combines rigidity, ease of adjustment, and compactness when folded.

### PRICES.

Size 1, made of the best quality straight-grained maple (light)	\$2.50
Size 1, extra quality and finish (light) . . . . .	3.00
Size 2, extra quality (heavy) . .	4.50

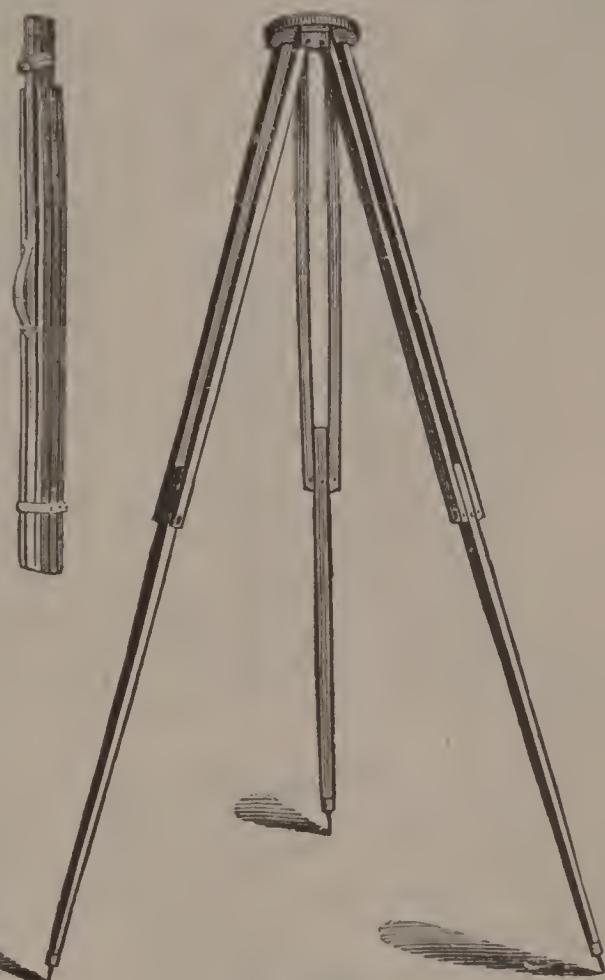


Fig. 16.

### THE BLAIR SLIDING TRIPOD.

This tripod has the advantage of being adapted to uneven foundations, by the legs being adjusted to proper lengths; it can also be lowered to about one half its maximum length; but owing to each leg being but single, it does not possess the same degree of rigidity as the folding.

Price, with Single Nickel-Plated Bands	. . . . .	\$2.50
" " Double	" . . . . .	3.00

## DOUBLE DRY PLATE HOLDERS.

BLAIR'S PATENT DOUBLE PLATE HOLDERS.—This Holder has now been in use by the most critical for over eighteen months, and is, we have every confidence, the most popular in the market. It is, without doubt, the most readily filled with plates; is safer when in the field than any other, and the manner of its construction makes it without a rival in point of strength. We have recently so improved it that the lock blocks in the end have been done away with and replaced by a bar which is held in position by a spring. There are no grooves to fit the plate

into, no movable partition to slide in or get broken. It can be filled in perfect darkness with ease, and the holder once closed it becomes thoroughly locked until one slide is fully drawn. They are made of cherry polished, as well as of whitewood finished in black, and are arranged to receive kits for plates any size under that of the holder (leaving, as a matter of course, sufficient difference in the size to make the frame of kits). Thus,

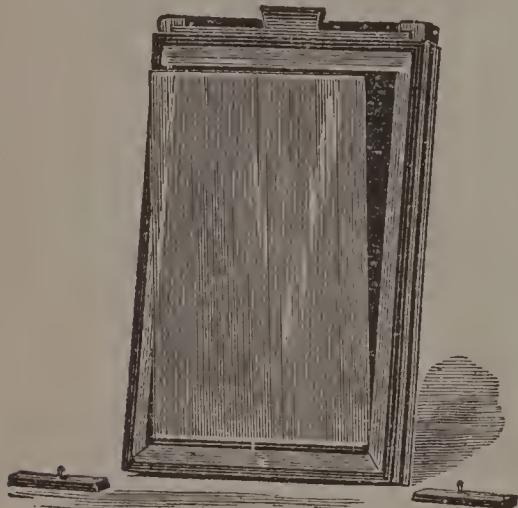
with an 8 x 10 camera, all sizes from

$3\frac{1}{4} \times 4\frac{1}{4}$  up to 8 x 10 can be used. Kits are not included with holders at prices given; therefore, in ordering, please specify when they are desired. Our method of applying the holder to the camera admits of the former being changed end for end; therefore, when in a cramped position, and unable to draw the slide to the right, change the holder and draw to the left.

## ORIGINAL STYLE DOUBLE PLATE HOLDERS.

By the plates sliding into grooves in this holder, it has the advantage of admitting the exposure of a plate which is in length only the width of holder; for example, a 4 x 5 plate can be used vertically in a 5 x 8 holder.

Kits cannot be used with these holders.



**Fig. 17.**

**BLAIR'S FEATHER WEIGHT DOUBLE PLATE HOLDERS.**

This holder is made to use with our adjuster, and cannot be used without it. It commends itself to all and needs no puffing. Can be used with kits.

**PRICE LIST OF DOUBLE PLATE HOLDERS.**

Size.	ORIGINAL STYLE.		BLAIR'S PATENT.		FEATHER WEIGHT. (Cherry.) Each.
	Cherry.	Whitewood.	Cherry.	Whitewood.	
4 x 5	....	....	\$2.00	\$1.50	\$1.00
4½ x 5½	....	....	2.00	1.50	1.00
4¼ x 6½	....	....	2.50	2.00	1.25
5 x 7	\$2.00	\$1.75	2.50	2.00	1.25
5 x 8	2.00	1.75	2.50	2.00	1.35
6½ x 8½	3.00	2.50	3.00	2.50	1.60
8 x 10	3.00	2.75	3.00	2.75	1.85
10 x 12	5.50	5.00	6.00	5.50	3.00
11 x 14	6.50	6.00	7.50	7.00	4.00

Larger sizes made single or double to order. Estimates furnished. Extra charges for fitting holders and adjusters to special cameras.

In ordering duplicate holders, state what camera they are intended for, whether with or without adjusters.



Fig. 18.

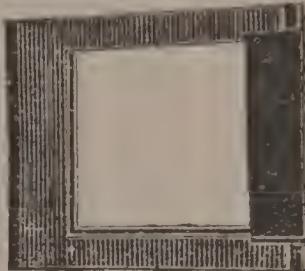


Fig. 19.

**INSIDE KITS.**

To enable the operator to use plates smaller than the size of holders. They are made of maple and very light. Two styles are made; one for use with the Blair Patent, the other F. W. Please state plainly for which holder they are desired.

## PLATE HOLDERS.

Certain sizes of the pattern for Feather Weight Holders will fit one inside the other. For example, if it is desired to use a 4 x 5 in an 8 x 10 holder, we would use an 8 x 10 kit, having a 5 x 8 opening, together with a 5 x 8 kit, having a 4 x 5 opening.

## KITS FOR BLAIR'S PATENT DOUBLE PLATE HOLDER.

Size of Double Plate Holders.	Size of Opening in Kit.	Price.
4 x 5	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	.25
4 $\frac{1}{4}$ x 5 $\frac{1}{2}$	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	.25
4 $\frac{1}{4}$ x 6 $\frac{1}{2}$	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	.30
5 x 7	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$ , 4 x 5, 4 $\frac{1}{4}$ x 5 $\frac{1}{2}$	.30
5 x 8	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$ , 4 x 5, 4 $\frac{1}{4}$ x 5 $\frac{1}{2}$ , 4 $\frac{1}{4}$ x 6 $\frac{1}{2}$	.30
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$ , 4 x 5, 4 $\frac{1}{4}$ x 5 $\frac{1}{2}$ , 4 $\frac{1}{4}$ x 6 $\frac{1}{2}$ , 5 x 7	.40
8 x 10	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$ , 4 x 5, 4 $\frac{1}{4}$ x 5 $\frac{1}{2}$ , 4 $\frac{1}{4}$ x 6 $\frac{1}{2}$ , 5 x 7, 5 x 8	.45
10 x 12	5 x 7, 5 x 8, 6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ , 8 x 10	.75
11 x 14	5 x 7, 5 x 8, 6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ , 8 x 10	.90

## KITS FOR FEATHER WEIGHT HOLDER.

Size of Double Plate Holder.	Size of Opening in Kit.	Price.
4 x 5	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	.30
4 $\frac{1}{4}$ x 5 $\frac{1}{2}$	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	.30
4 $\frac{1}{4}$ x 6 $\frac{1}{2}$	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$ , 4 x 5	.35
5 x 7	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$ , 4 x 5, 4 $\frac{1}{4}$ x 5 $\frac{1}{2}$	.35
5 x 8	4 x 5, 4 $\frac{1}{4}$ x 5 $\frac{1}{2}$ , 4 $\frac{1}{4}$ x 6 $\frac{1}{2}$	.35
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	4 $\frac{1}{4}$ x 6 $\frac{1}{2}$ , 5 x 7	.45
8 x 10	5 x 7, 5 x 8	.55
10 x 12	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ , 8 x 10	.85
11 x 14	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ , 8 q 10	1.00

## NEGATIVE BOXES.

The trouble of unwrapping and wrapping a package of plates in the dark room, when filling a plate holder in a hurry, suggests the convenience of this article, also as a convenient and durable means of storing negatives. Thoroughly and neatly made, with joints thoroughly broken to protect the plates from light, each carrying two dozen plates.

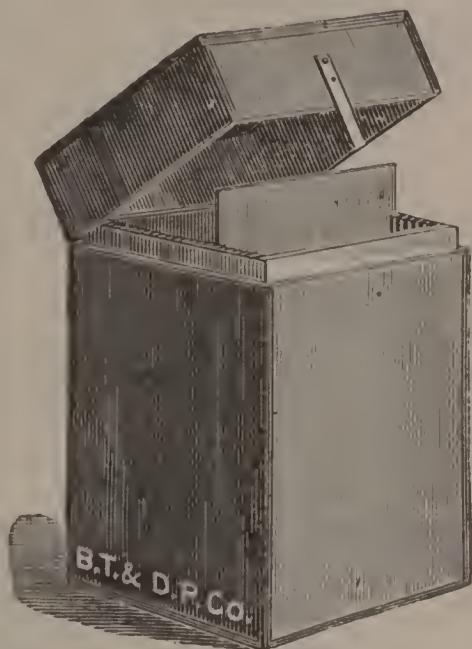
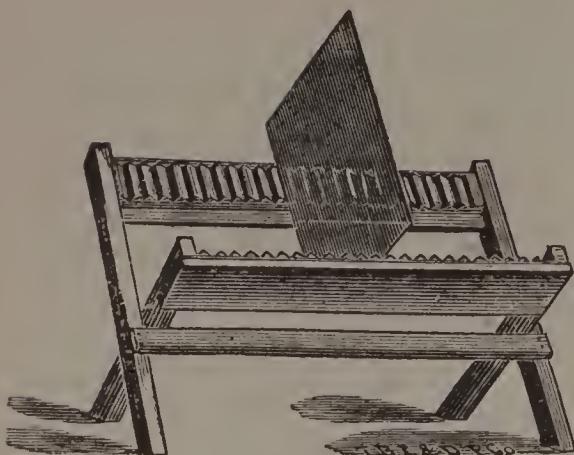


Fig. 20.

## PRICE LIST.

Size.	Price.
3 1/4 x 4 1/4 .....	\$ .75
4 x 5.....	.80
4 1/4 x 5 1/2.....	.90
4 1/4 x 6 1/2.....	.90
5 x 8.....	1.00
6 1/2 x 1 1/2.....	1.10
8 x 10.....	1.25

**THE NEGATIVE DRYING RACK.***Fig. 21.*

Indispensable for convenience and to prevent negatives becoming scratched while drying.

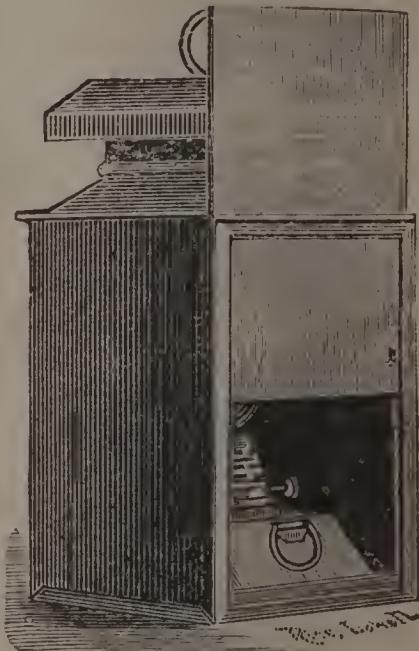
**PRICES.**

Size 1.....50 cents for plates to 8 x 10

Size 2.....90 cents for plates to 14 x 17

**DEVELOPING LANTERNS.****THE TRIUMPH RUBY LANTERN.**

This lantern, though previously considered to be the best-made lantern sold, has been greatly improved both in appearance and utility. The glass is encased in a neatly made frame which is easily removed; in front of the ruby glass is space for a glass of another color, or orange paper. We warrant this to be all we claim for it, viz., practical, white light proof, free from unpleasant fumes, and perfectly cool at the base while burning. It is particularly adapted for photo-micrography, or the making of transparencies and lantern slides, as the ruby glass is easily withdrawn, and a powerful reflector in the back strengthens the power of the light many times. Price, \$2.75.

*Fig. 22.*

## THE W. I. A. RUBY LANTERN.



*Fig. 23.*

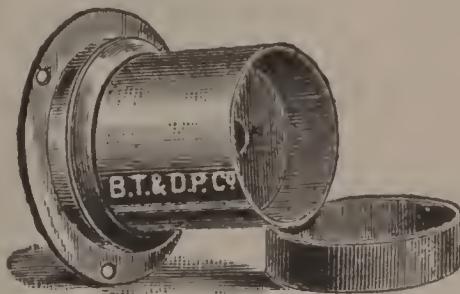
As a means of obtaining a small amount of light with a lantern that is compact and portable, this style answers the purpose admirably. It cannot be recommended, however, for general use in the developing room.

Price, 50 cents.

## LENSES.

We are repeatedly asked what is the best lens to buy for a given purpose, and shall endeavor to answer to save unnecessary correspondence.

For landscape viewing, it is a well-conceded fact that there is nothing better than a Single Achromatic Lens, as the expression of perspective is natural, and it gives exceedingly uniform definition. We have seen



*Fig. 24.*

many landscape pictures made with them which were all that could be asked for by the most critical; also many interiors, and even portraits, which were in themselves gems; but by the curving of straight lines on the outer edge of the picture, they are unfit for this latter class of work. The same curving occurs in landscape views, but as the works of nature are not as a rule comprised of straight lines, the distortion is unnoticeable.

## PRICES.

T. B. T. Co's View Lens, 5½ inch focus.....	\$4.00
"      "      8½      "      .....	5.00
"      "      10      "      .....	6.00

As there is such a difference of opinion regarding working quality of different makes of the higher grade of lenses, we refrain from recommending any special make, further than to say we list only the most celebrated, and are ready to warrant any quoted below.



Fig. 25.

## VOIGTLAENDER'S EURYSCOPE VIEW LENSES.

Improved Euryscope View Lens, No. 0, for 4 x 5 Cameras.....	\$27.00
"      "      No. 00, for 5 x 8      "      .....	37.50
"      "      No. 1, for 6½ x 8½ Cameras.....	45.00
"      "      No. 2, for 8 x 10      "      .....	53.00

These Lenses are unrivalled for groups, full-length figures, and large heads, working with full apertures, and giving a depth of focus and equal distribution of light unexcelled by any known lenses. They are entirely free from distortion, and the pictures produced by them are mathematically correct, rendering them invaluable for copying plans and for architectural subjects. Another advantage is their extraordinary power of gathering light, adapting them particularly to the making of instantaneous views, animals in motion, yachts, etc. The width of angle embraced is from 65 to 85 degrees, according to the size of diaphragm employed.

*Nos. 0 and 00 can be had in matched pairs for stereoscopic work.*

## DARLOT'S RAPID HEMISPHERICAL VIEW LENSES.

Darlot Rapid Hemispherical View Lens, No. 1, for 4 x 5 Cameras.....	\$15.00
" " " " No. 2, for 5 x 8 "	25.00
" " " " No. 3, for 6½ x 8½ "	35.00



*Fig. 26.*

These Lenses embrace angles from 60 to 75 degrees; are quick-acting, perfectly rectilinear, and provided with central stops. They will be found very fine Lenses for landscapes, out-door groups, and instantaneous work; also for copying engravings, maps, architectural subjects, etc.



*Fig. 27.*

## DALLMEYER'S RAPID RECTILINEAR VIEW LENSES.

Dallmeyer's Rapid Rectilinear Lens, 5 x 4, 6 inch focus.....	\$37.00
" " " " 6 x 5, 8¼ inch focus.....	45.00
" " " " 8½ x 6½ II "	57.50
" " " " 10 x 8, 13 "	75.00

These lenses are constructed to embrace angles from 60 to 80 degrees. They admit of being used with full opening, and are therefore invaluable for dimly lighted interiors and for instantaneous exposures. The image produced by them is absolutely free from distortion and the resulting pictures from all flare or central spots.

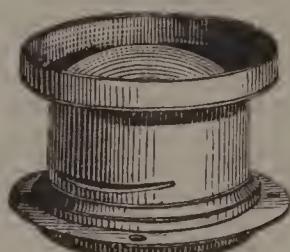
### WIDE ANGLE LENSES.

For street views, architectural effects in confined situations, and many interiors, it becomes necessary to employ lenses of a very wide angle and comparatively short focus.



*Fig. 28.*

Darlot's Wide Angle Hemispherical Lens, No. 1,	$3\frac{1}{4} \times 4\frac{1}{4}$ , $2\frac{1}{2}$ inch focus.	\$13.00
" " "	" No. 2, $4 \times 5$ , $3$ inch focus.....	15.00
" " "	" No. 3, $5 \times 8$ , $5$ " .....	20.00
" " "	" No. 4, $8 \times 10$ , $8$ " .....	25.00



*Fig. 29.*

Dallmeyer's Wide Angle Rectilinear Lens, I (AA),	$7 \times 5$ , $4$ inch focus...	\$37.50
" " "	" I (A), $8\frac{1}{2} \times 6\frac{1}{2}$ , $5\frac{1}{4}$ inch focus	47.50
" " "	" I, $10 \times 8$ , $7$ inch focus.....	62.50

These Lenses are mounted in rigid settings or tubes, and furnished with rotating diaphragm plates. The No. I (AA) can be had in matched pairs for stereoscopic work. They are probably the finest Wide Angle Lenses made.



*Fig. 30.*

Voigtlaender's Wide Angle Euryscope Lens, No. 0,	$4 \times 5$ , $4\frac{1}{6}$ inch focus..	\$30.00
" " "	" No. 1, $5 \times 7$ , $5\frac{1}{3}$ "	.. 35.00
" " "	" No. 2, $5 \times 8$ , $6\frac{1}{3}$ "	.. 40.00
" " "	" No. 3, $6\frac{1}{2} \times 8\frac{1}{2}$ , $7\frac{1}{3}$ "	.. 50.00
" " "	" No. 4, $8 \times 10$ , $9$ "	.. 65.00

## INSTANTANEOUS EXPOSER.

We offer the three following patterns of this important article in modern photography, believing that they are equal to the best for the purposes for which they are designed. For convenience, we have named them as follows: "English Instantaneous Shutter," it being the most rapid of any made. We have pictures of vessels in full sail taken by its use with the camera on a tug-boat, also in motion, which is the most difficult kind of work. It is of English design. The "Standard Drop Shutter,"—it is simple and reliable, and the "Boston Exposer." The latter operates by a very ingenious movement, giving the sky less exposure than the foreground.

### PRICE LIST.

English Instantaneous Shutters No. 1, suitable for small and medium tubes .....	\$7.00
English Instantaneous Shutters No. 2, for large tubes.....	8.00
Standard Drop, two sizes .....	1.75
Boston Exposer.....	2.00

## RECESS EXTENSION FRONTS.

These are used as a means in decreasing the distance between the ground glass and front of camera for an exceedingly short focus lens, and can be reversed to increase the focusing capacity in using one of a very long focus, or when copying.

### PRICE LIST.

Size of Camera.	FOR REVERSIBLE BACK CAMERA.	Price.
4 $\frac{1}{4}$ x 5 $\frac{1}{2}$ }	.....	\$1.50
5 x 7 }	.....	
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ }	.....	
8 x 10 }	.....	2.00
11 x 14 }	.....	
	FOR ORIGINAL COMBINATION CAMERA	
4 x 5 }	.....	1.25
5 x 8 }	.....	
8 x 10	.....	2.00

*Special sizes to order at an increased cost.*

**GELATINE DRY PLATES.****" IN UNION THERE IS STRENGTH."**

Believing in the above adage, MARSHALL & CHUTE, and the BLAIR TOUROGRAPH AND DRY PLATE Co., both of Boston, have united their interests in the manufacture of Gelatine Dry Plates, and will continue to serve their patrons and the photographic fraternity under the name of THE MARSHALL AND BLAIR Co.

BOSTON, April 1, 1884.

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In connection with the above, we would respectfully call the attention of Photographers to our facilities and advantages as manufacturers in this important branch of Photography.

Since the early days of the Gelatine Dry Plate, the names of A. MARSHALL and T. H. BLAIR have been conspicuously identified with their manufacture in the East, both being among the first manufacturers and users in the country. During the changeable, feverish state of the market, they have steadily watched and tested all new improvements in connection with their personal and original investigation, until they believe they are enabled to make a Photographic Gelatine Dry Plate which leaves but little to be desired.

Every detail in the manufacture of the plate has the personal supervision of Mr. Marshall, who has the co-operation of Mr. Blair, and only skilled and competent help are employed as assistants.

Plates from every batch have a thorough test at the factory, and at the studio of Marshall & Chute; this, in connection with their being in constant practical use in two or more city studios, we believe will enable us to warrant all sent out as being uniform and reliable.

We are prepared to make a perfectly insoluble plate, for tropical climates, to order, but it is a well known fact that the process of rendering gelatine insoluble does not at least add to the good working qualities of the plates.

Rapidity, vigor of the image, and brilliancy are points in which we are confident the Marshall & Blair Plates excel. We append the following price-list for your inspection, having adopted it after much deliberation, and in the belief that it will allow us a fair margin for profit, and prove acceptable to consumers.

*Owing to the uncertain condition of the glass market, this article is especially subject to fluctuation.*

#### PRICE LIST OF THE MARSHALL & BLAIR PLATE.

$3\frac{1}{4} \times 4\frac{1}{4}$ , per doz.....	\$ .60	$10 \times 12$ , per doz.....	\$ 4.50
$4 \times 5$ ,        "        .....	.85	$11 \times 14$ ,        "        .....	6.00
$4\frac{1}{4} \times 5\frac{1}{2}$ ,        "        .....	1.00	$14 \times 17$ ,        "        .....	10.00
$4\frac{1}{4} \times 6\frac{1}{2}$ ,        "        .....	1.10	$10 \times 20$ ,        "        .....	15.00
$5 \times 7$ ,        "        .....	1.35	$17 \times 20$ ,        "        .....	16.00
$5 \times 8$ ,        "        .....	1.55	$18 \times 22$ ,        "        .....	18.00
$6\frac{1}{2} \times 8\frac{1}{2}$ ,        "        .....	2.00	$20 \times 24$ ,        "        .....	23.00
$8 \times 10$ ,        "        .....	3.10		

Discounts are as follows:—

Orders amounting to \$50, 5 per cent off.

"        "        over \$50, and under \$100, 10 per cent off.

"        "        "\$100        "        "\$200, 15        "        "

#### PRICE LISTS OF SPECIAL PARTS OF CAMERA.

In ordering special parts, it is always a safe and simple plan, when the shape will admit, to lay the part of which a duplicate is desired on a paper, and outline the size, etc. In fact, this applies with equal effect in ordering Plate Holders, etc.

##### REVERSIBLE ADJUSTER.

For $4\frac{1}{4} \times 5\frac{1}{2}$ Camera, Reversible Back .....	\$4.00
" $5 \times 7$ "        "        .....	5.00
" $6\frac{1}{2} \times 8\frac{1}{2}$ "        "        .....	5.00
" $8 \times 10$ "        "        .....	6.00
" $5 \times 8$ Combination Camera (B) .....	4.00
Special sizes 10% to 20% extra.	

## PRICE LIST.

## COMBINATION CAMERA.

Front Boards for 4 x 5, Sliding and Stationary.....	.25
"      "      " 5 x 8 (A),     "	.30
"      "      " 5 x 8 (B),     "	.30
"      "      " 8 x 10       "	.40

## REVERSIBLE BACK.

Front Boards for 4½ x 5½.....	.25
"      "      " 5 x 7 .....	.30
"      "      " 6½ x 8½ .....	.35
"      "      " 8 x 10 .....	.35
"      "      " 11 x 14 .....	.45

## COMBINATION CAMERA.

Sliding Fronts for 5 x 8 (A), Vertical.....	\$1.25
"      "      " 5 x 8 (A), Horizontal.....	1.25
"      "      " 5 x 8 (B), Vertical.....	1.25
"      "      " 5 x 8, Horizontal.....	1.25
"      "      " 8 x 10, Vertical.....	1.50
"      "      " 8 x 10 Horizontal.....	1.50

4 x 5      11 x 14

Folding Beds, without Racks, from..... 50 cts. to \$3.50

4 x 5      11 x 14

Ground Glass, in Frame, from ..... 75 cts. to \$3.00

Thumb Screws, from ..... 15 cts. to 40 cts.

*Other parts at corresponding prices.*

## PRICE LIST OF SPECIAL PARTS TO HOLDER.

Slides, 5 x 8, with end piece attached.....	.10
"      8 x 10     "     " .....	.15
"      11 x 14     "     " .....	.25

## PRICE LIST OF SPECIAL PARTS OF TRIPODS.

Heads, without Screw.....	.75
Single Legs.....	.75
Attaching Screws, plain.....	.25
"      " with band.....	.30

## CARRYING CASES.

Carrying Case, for 4 x 5 Utility, with Strap.....	\$1.00
"      " 5 x 8     "     " .....	1.15
"      " 4 x 5, Combination Camera, with Strap and Handle...	1.35
"      " 5 x 8     "     "     "     " .....	2.25
"      " 8 x 10     "     "     "     " .....	2.50
"      " 4 $\frac{1}{4}$ x 5 $\frac{1}{2}$ , Reversible Back, Duck.....	2.25
"      " 5 x 7     "     "     " .....	2.50
"      " 6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ "     "     " .....	2.75
"      " 8 x 10     "     "     " .....	3.25
"      " 11 x 14     "     "     " .....	4.00
"      " 5 x 8 Extension, Black Cloth,	1.25
"      " 8 x 10     "     " .....	1.75
"      " 10 x 12     "     " .....	2.50
"      " 5 x 8     "     Duck,	2.00
"      " 8 x 10     "     " .....	2.50
"      " 10 x 12     "     " .....	2.75
"      " 11 x 14     "     " .....	2.25
Extra straps from	25 to 55 cts.

## PRICE LIST OF SPECIAL PARTS TO AMATEUR PRINTING AND DEVELOPING OUTFITS.

Printing Frames 5 x 8 .....	.70
"      " 4 x 5 .....	.55
Graduates, 4 oz. ....	.40
Robinson Trimmer.....	.50
Developing or Fixing Pans, 4 x 5 .....	.20
"      "     " 5 x 8 .....	.25
Sensitized Albumenized Paper, 4 x 5 per doz.	.20
"      "     " 5 x 8     "     " .....	.37
Oxalate of Potash per lb. ....	.50
Hypo. Soda per lb. ....	.08
Protosulphate of Iron per lb. ....	.08

## AMATEUR OUTFIT DEPARTMENT.

To enable the entirely inexperienced to select an outfit complete for work, we have issued this special "Outfit List." For all description of the merits of each article named, their capabilities, and for separate parts, we would refer you to the preceding pages. Where a better lens is desired, deduct from outfit, price of T. B. T. Co.'s lens, and add price of one selected, to be found on pages 20, 21, 22.

THE AMATEUR GUIDE IN PHOTOGRAPHY is the most practical and concise work of the kind published. Price, 20 cents.

The outfits embraced in this list are complete, and include everything requisite for commencing work.

---

### COMBINATION CAMERA OUTFITS.

- Z. 1 4x5 Combination Camera, with Rack and Pinion. 2 4x5 Plate Holders (Cherry). 1 T. B. T. Co's Single Achromatic Lens. 1 English Folding (or Sliding) Tripod. 1 Amateur's Guide. 1 Focusing Cloth. 1 Carrying Case. Price \$28.00. With Developing and Printing Outfit, including one dozen 4x5 plates, \$34.00.
- A. 1 5x8 Combination Camera (described in Catalogue as A). 2 5x8 Double Plate Holders (Cherry). 1 T. B. T. Co's Single Achromatic Lens. 1 English Folding (or sliding) Tripod. 1 Focusing Cloth. 1 Copy Amateur Guide. 1 Carrying Case. Price, \$35.00. With Developing and Printing Outfit, including one dozen plates \$43.00.
- B. 1 5x8 Combination Camera (described in Catalogue as B). 2 5x8 Double Plate Holders. 1 T. B. T. Co's Single Achromatic Lens. 1 English Folding (or sliding) Tripod. 1 Focusing Cloth. 1 Copy Amateur Guide. 1 Carrying Case. Price, \$38.50. With Developing and Printing Outfit, including one dozen plates, \$47.00.

ZZ. Same as Z excepting lens to cover 5x7 plate, and 1 5x7 Patent Extension. 1 5x7 Double Plate Holder (Cherry). 2 Carrying Cases. Price \$33.00. With Developing and Printing Outfit, including one dozen 5x8 plates, \$40.00.

AA. Same as A excepting lens to cover 6 1-2x8 1-2 plate and 16 1-2x8 1-2 Patent Extension. 16 1-2x8 1-2 Double Plate Holder. 2 Carrying Cases. Price, \$42.50. With Developing and Printing Outfit, including one dozen 6 1-2x8 1-2 plates, \$50.00.

B B. Same as B excepting lens to cover 8x10 plate, and 1 8x10 Patent Extension. 1 8x10 Double Plate Holder. 2 Carrying Cases Price \$46.00. With Developing and Printing Outfit, including one dozen 8x10 Plates, \$54.00.

### UTILITY CAMERA OUTFITS.

C. 1 4x5 Utility Camera. 1 T. B. T. Co.'s Single Achromatic Lens. 1 4x5 Double Plate Holder. 1 English Folding Tripod. 1 Copy Amateur Guide in Photography. 1 Carrying Case. 1 Focusing Cloth. Price, \$15.00. With Developing and Printing Outfit, including one dozen 4x5 plates, \$22.00.

E. 1 5x8 Utility Camera. 1 T. B. T. Co.'s Single Achromatic Lens. 1 5x8 Double Plate Holder. 1 English Folding Tripod. 1 Copy Amateur Guide in Photography. 1 Carrying Case. 1 Focusing Cloth. Price, \$17.00. With Developing and Printing Outfit, including one dozen 5x8 plates, \$23.00.

F. 1 5x8 Utility Camera, with double sliding front, extra front, and division for stereoscopic work, and adapted for vertical or horizontal work. 1 T. B. T. Co.'s Single Achromatic Lens. 1 Pair Matched Lenses. 1 5x8 Double Plate Holder. 1 English Folding Tripod. 1 Copy Amateur Guide in Photography. 1 Focusing Cloth. 1 Carrying Case. Price, \$25.00. With Developing and Printing Outfit, including one dozen 5x8 plates, \$33.00.

## THE STANDARD OUTFITS.

I. 1 4x5 Standard Camera. 1 T. B. T. Co.'s Single Achromatic Lens, with screw flange. 1 Folding Tripod. 1 Carrying Case. 1 Copy Amateur's Guide Book. 1 Patent Double Dry Plate Holder. Price, \$9.00.

H. 1 Standard Camera. 1 Patent Double Dry Plate Holder. 1 T. B. T. Co.'s Single Achromatic Lens, with screw flange. 1 Folding Tripod. 1 Carrying Case. 1 Copy Amateur's Guide Book. Price, \$10.00.

K. 1 5x8 Standard Camera, so arranged as to work vertically or horizontally for full size of plate; or, by adjusting the pair of lenses which are fitted on the *extra* front, and applying the stereoscopic division, a very excellent stereoscopic camera is obtained, or one with which two different 4x5 views can be taken on one plate. 1 Patent Double Dry Plate Holder. 1 T. B. T. Co.'s Single Achromatic Lens. 1 Folding Tripod. 1 Carrying Case. 1 Copy Amateur's Guide Book. Price, \$18.50.

Developing and Printing Outfit for any of above, with one dozen 5x8, or two dozen 4x5 plates. Price, 7.50.

## THE PRINTING AND DEVELOPING OUTFITS

mentioned herein will be found to embrace all the essentials for work, but, owing to the continual changing in the formulas for development, etc., we refrain from enumerating the articles, but append an example of a so-called outfit, and warrant all such outfits to have either the articles, or the equivalent in something more modern.

Outfit No. 2, for 5 x 8 Prints, included in two cases:—

**PART I.—For Developing.**

1 Developing Pan.	½ lb. Protosulphate of Iron.
1 Fixing Pan.	1 Printing Board.
1 Glass Graduate, 4 oz.	1 oz. Bromide of Potassium.
1 Ruby Lantern, W. I. A.	½ lb. Alum.
1 Blending Brush.	1 doz. sheets Roman Blue Paper, 5 x 8.
1 lb. Oxalate of Potash.	
1 lb. Hyposulphite of Soda.	

Price \$3.50, with one dozen 5 x 8 Plates, \$5.25.

**PART II.**

1 Printing Frame.	1 doz. sheets Silver Sensitive Paper, 5 x 8.
1 Toning Pan.	1 Trimming Glass.
1 Fixing Pan.	1 doz. Mounts, 5 x 8.
1 Glass Graduate, 1 dr.	1 Robinson Straight Trimmer.
1 bottle Negative Varnish.	
1 „ Chloride of Gold.	

Price of outfit, complete, \$6.00.

We being manufacturers, not general dealers, our only object in selling chemicals, etc., is to aid in selling our Apparatus and Plates; therefore our outfits are, in consequence, quite certain of being at least equal to the best, in order to insure justice to the goods of our own manufacture.



## WEIGHTS AND MEASURES OF APPARATUS, ETC.

SIZE.		OUTSIDE DIMENSIONS INCHES.	WEIGHTS.	
			LBS.	OZS.
4x5 Combination Camera .....		6 1/4 x 6 3/4 x 7 1/4	2	2
5x8        "	"	7 x 11 x 9 1/4	4	8
8x10        "	"	7 x 11 x 9 1/4	6	12 1/2
5x8 Triumph	"	7 x 8 3/4 x 10 1/2	4	
4x5 Utility	"	7 x 8 3/4 x 10 1/2	1	7
5x8        "	"	8 x 9 1/4 x 4	2	8
4x5 Black	"	6 1/2 x 6 1/4	1	4
5x8        "	"	7 1/2 x 9 1/4	2	
5x8 Extension	"	9 1/4 x 6 1/2 x 3 1/2		15
6 1/2 x 8 1/2 "	"	9 3/4 x 8 1/2 x 3 1/2	1	4
8x10        "	"	11 1/4 x 10 x 3 1/2	1	12
10x12        "	"	13 1/2 x 12 1/2 x 3	2	10
4x5 Holder, black.....		6 3/4 x 5 1/4 x 1		5
4x5        " cherry.....		6 3/4 x 5 1/4 x 1		6
5x8        " black, small.....		9 3/4 x 6 1/2 x 1		8
5x8        " large.....		10 3/4 x 7 1/2 x 1		12
5x8        " cherry.....		9 3/4 x 6 1/2 x 1		9
6 1/2 x 8 1/2 Holder.....		7 1/2 x 10 1/2 x 1		12
8x10        " for extension.....		12 1/2 x 9 1/2 x 1	1	
8x10        " " camera.....		12 1/2 x 10 x 1	1	
10x12        " .....		11 x 14 x 1	1	5
4 1/4 x 5 1/2 carrying 6 plate-holders.....		9 x 8 x 8 1/2	3	4
4 1/4 x 5 1/2        " 1 "        " .....		5 1/2 x 8 x 8 1/2	3	
5x7        " 6 "        " .....		9 x 10 x 9 1/2	4	
5x7        " 1 "        " .....		5 1/2 x 10 x 9 1/2	3	12
6 1/2 x 8 1/2        " 6 "        " .....		9 x 11 x 11	5	
6 1/2 x 8 1/2        " 1 "        " .....		5 1/2 x 11 x 11	4	12
8x10        " 6 "        " .....		11 x 12 x 13 1/2	7	4
8x10        " 1 "        " .....		8 x 12 x 13 1/2	7	
11 x 14 extension front carrying 1 plate-holder....		9 x 18 x 19		
4 1/4 x 5 1/2 Feather Weight Holders.....		5 1/2 x 7 1/2		4
5x7        "        "        " .....		6 x 7 3/4		6
6 1/2 x 8 1/2        "        " .....		7 x 10 1/2		7 1/2

## TRIPODS.

Folding, extreme length 58 inches, closed 33 inches, weight 3 pounds 6 ounces.  
 Sliding, heavy, extreme length 59 inches, closed 32 inches, weight 2 lbs. 4 ozs.  
 Sliding, light, extreme length 59 inches, closed 32 inches, weight 1 lb. 14 ozs.

## Suggestions and Terms.

In ordering from this Catalogue, we would ask you to read carefully what is said of the articles you intend to include in your order, as we are compelled to fill all such of your favors by the guidance of these lists, etc., and cannot be held responsible for mistakes caused by ordering without judicious reference to them.

*This edition supersedes all former ones, and any special or outfit circulars will be governed by prices herein quoted.* The same, however, are subject to changes caused by fluctuations in prices of materials used, etc. Buyers will receive the benefit of any reduction in price, even when not aware of the change.

We guarantee all goods manufactured by us to be as represented, and our prices will be found on investigation to be low, compared with those of goods of equal quality.

Responsible houses dealing in photographic apparatus or outfits, throughout the country, carry our goods in stock, and intending purchasers are requested to examine the same, where they can be compared with those of other manufacturers. If, however, they are not to be found at your dealer's, we will be happy to fill your orders, with the privilege of examining before paying, in accordance with our terms, which are strictly cash on delivery. *When goods are to be sent per express C. O. D., one third must invariably be remitted with the order.* All articles to be sent by mail must have the postage remitted with order. (See "Shipments.") Care should be taken to write the name and address distinctly.

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SHIPMENTS.—All orders will be shipped by express, unless otherwise requested. Small parcels, which do not contain glass in any form, can be sent through the mail at the risk of the purchaser. Goods will be carefully packed, but we assume no responsibility for breakage in transportation.

*Nothing can be obtained of us at a discount from list prices except in wholesale quantities.*



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~~~THE~~~

# Amateur \* Guide \* in \* Photography.



A CONCISE AND PRACTICAL WORK FOR THE BEGINNER.

Sent Postpaid for 20c. by all Dealers. Bound in Cloth, 40c.



PUBLISHED BY THE **BLAIR TOUROGRAPH & DRY PLATE CO.**

BOSTON, MASS.